## STIC Biotechnology Systems Branch

## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	09/683,	26	7
Source:		IFU	5/6
Date Processed by STIC:		·//	18/06
-			

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO **REDUCE** ERRORED SEQUENCE LISTINGS, **PLEASE** USE THE <u>CHECKER</u> <u>VERSION 4.4.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (<a href="http://www.uspto.gov/ebc/efs/downloads/documents.htm">http://www.uspto.gov/ebc/efs/downloads/documents.htm</a>, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- 3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05): U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: 09/683, 264
ATTN: NEW RULES CASES:	PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE
1Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3Misaligned Amino Numbering	The numbering under each 5 <sup>th</sup> amino acid is misaligned. Do <b>not</b> use tab codes between numbers; use <b>space characters</b> , instead.
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5Variable Length	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:  (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  This sequence is intentionally skipped
	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
8Skipped Sequences (NEW RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
9Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing.  Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
10Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
11Use of <220>	Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.  Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
13 Misuse of n/Xaa	"n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



IFW16

RAW SEQUENCE LISTING DATE: 01/18/2006
PATENT APPLICATION: US/09/683,264 TIME: 09:46:35

Input Set : A:\018547.ST25.txt

Output Set: N:\CRF4\01182006\I683264.raw

```
3 <110> APPLICANT: Affymetrix, Inc.
          Siani-Rose, Michael A.
 4
          Shigeta, Ron
 7 <120> TITLE OF INVENTION: Computer Software for Automated Annotation of Biological
          Sequences
10 <130> FILE REFERENCE: 018547-048820US
12 <140> CURRENT APPLICATION NUMBER: US 09/683,264
13 <141> CURRENT FILING DATE: 2001-12-05
15 <150> PRIOR APPLICATION NUMBER: US 60/285,144
16 <151> PRIOR FILING DATE: 2001-04-19
                                                                   Does Not Comply
18 <150> PRIOR APPLICATION NUMBER: US 60/285,403
                                                                  Corrected Diskette Needed
19 <151> PRIOR FILING DATE: 2001-04-20
21 <160> NUMBER OF SEQ ID NOS: 5
23 <170> SOFTWARE: PatentIn version 3.3
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 373
26 <211> LENGTH: 373
27 <212> TYPE: PRT
28 <213> ORGANISM: Artificial
30 <220> FEATURE:
31 <223> OTHER INFORMATION: Figure GRAPAHIT1 sequence
33 <400> SEQUENCE: 1
35 Leu Leu Gln Asp Ser Leu Leu Arg Leu Lys Asp Tyr Arg Gln Cys Phe
36 1
5 10
15
                                                                           gesetici
motevil)
see item 11 on
Evor Summary
Sheet
36 1
                                            10
                                                                   15
39 Glu Cys Ser Asp Val Ala Leu Asn Glu Ala Val Gln Gln Met Val Asn
40
                 20
43 Ser Gly Glu Ala Ala Ala Lys Glu Glu Trp Val Ala Thr Val Thr Gln
            35
                                   40
                                                          45
47 Leu Leu Met Gly Ile Glu Gln Ala Leu Ser Ala Asp Ser Ser Gly Ser
51 Ile Leu Lys Val Ser Ser Ser Thr Thr Gly Leu Val Arg Leu Thr Asn
                                                                        80
52 65
                          70
                                                 75
55 Asn Leu Ile Gln Val Ile Asp Cys Ser Met Ala Val Gln Glu Glu Ala
56
                                            90
59 Lys Glu Pro His Val Ser Ser Val Leu Pro Trp Ile Ile Leu His Arg
60
                 100
                                        105
                                                               110
63 Ile Ile Trp Gln Glu Glu Asp Thr Phe His Ser Leu Cys His Gln Gln
                                   120
            115
67 Gln Leu Gln Asn Pro Ala Glu Glu Gly Met Ser Glu Thr Pro Met Leu
68
        130
                               135
                                                      140
71 Pro Ser Ser Leu Met Leu Leu Asn Thr Ala His Glu Tyr Leu Gly Arg
72 145
                          150
                                                 155
                                                                        160
75 Arg Ser Trp Cys Cys Asn Ser Asp Gly Ala Leu Leu Arg Phe Tyr Val
76
                     165
                                            170
                                                                   175
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Input Set : A:\018547.ST25.txt

Output Set: N:\CRF4\01182006\I683264.raw

79 Arg Val Leu Gln Lys Glu Leu Ala Ala Ser Thr Ser Glu Asp Thr His 83 Pro Tyr Lys Glu Glu Leu Glu Thr Ala Leu Glu Gln Cys Phe Tyr Cys 87 Leu Tyr Ser Phe Pro Ser Lys Lys Ser Lys Ala Arg Tyr Leu Glu Glu 91 His Ser Ala Gln Gln Val Asp Leu Ile Trp Glu Asp Ala Leu Phe Met 92 225 95 Phe Glu Tyr Phe Lys Pro Lys Thr Leu Pro Glu Phe Asp Ser Tyr Lys 99 Thr Ser Thr Val Ser Ala Asp Leu Ala Asn Leu Leu Lys Arg Ile Ala 103 Thr Ile Val Pro Arg Thr Glu Arg Pro Ala Leu Ser Leu Asp Lys Val 107 Ser Ala Tyr Ile Glu Gly Thr Ser Thr Glu Val Pro Cys Leu Pro Glu 111 Gly Ala Asp Pro Ser Pro Pro Val Val Asn Glu Leu Tyr Tyr Leu Leu 112 305 115 Ala Asp Tyr His Phe Lys Asn Lys Glu Gln Ser Lys Ala Ile Lys Phe 119 Tyr Met His Asp Ile Cys Ile Cys Pro Asn Arg Phe Asp Ser Trp Ala 123 Gly Met Ala Leu Ala Arg Ala Ser Arg Ile Gln Asp Lys Leu Asn Ser 127 Asn Glu Leu Lys Ser 131 <210> SEQ ID NO: 2 132 <211> LENGTH: 178 133 <212> TYPE: PRT same eno 134 <213> ORGANISM: Artificial 136 <220> FEATURE: 137 <223> OTHER INFORMATION Figure 1vhr sequence 139 <400> SEQUENCE: 2 141 Ser Val Gln Asp Leu Asn Asp Leu Leu Ser Asp Gly Ser Gly Cys Tyr 142 1 145 Ser Leu Pro Ser Gln Pro Cys Asn Glu Val Thr Pro Arg Ile Tyr Val 149 Gly Asn Ala Ser Val Ala Gln Asp Ile Pro Lys Leu Gln Lys Leu Gly 153 Ile Thr His Val Leu Asn Ala Ala Glu Gly Arg Ser Phe Met His Val 157 Asn Thr Asn Ala Asn Phe Tyr Lys Asp Ser Gly Ile Thr Tyr Leu Gly 158 65 161 Ile Lys Ala Asn Asp Thr Gln Glu Phe Asn Leu Ser Ala Tyr Phe Glu 165 Arg Ala Ala Asp Phe Ile Asp Gln Ala Leu Ala Gln Lys Asn Gly Arg 169 Val Leu Val His Cys Arg Glu Gly Tyr Ser Arg Ser Pro Thr Leu Val 

Input Set : A:\018547.ST25.txt

Output Set: N:\CRF4\01182006\I683264.raw

173 Ile Ala Tyr Leu Met Met Arg Gln Lys Met Asp Val Lys Ser Ala Leu 130 135 174 177 Ser Ile Val Arg Gln Asn Arg Glu Ile Gly Pro Asn Asp Gly Phe Leu 178 145 150 155 181 Ala Gln Leu Cys Gln Leu Asn Asp Arg Leu Ala Lys Glu Gly Lys Leu 182 165 170 175 185 Lys Pro 189 <210> SEQ ID NO: 3 190 <211> LENGTH: 159 191 <212> TYPE: PRT 192 <213> ORGANISM: Artificial 194 <220> FEATURE: 195 <223> OTHER INFORMATION: Pigure 1a17 sequence 197 <400> SEQUENCE: 3 199 Pro Pro Ala Asp Gly Ala Leu Lys Arg Ala Glu Glu Leu Lys Thr Gln 200 1 5 10 15 203 Ala Asn Asp Tyr Phe Lys Ala Lys Asp Tyr Glu Asn Ala Ile Lys Phe 204 25 207 Tyr Ser Gln Ala Ile Glu Leu Asn Pro Ser Asn Ala Ile Tyr Tyr Gly 208 211 Asn Arg Ser Leu Ala Tyr Leu Arg Thr Glu Cys Tyr Gly Tyr Ala Leu 212 50 55 215 Gly Asp Ala Thr Arg Ala Ile Glu Leu Asp Lys Lys Tyr Ile Lys Gly 216 65 70 75 80 219 Tyr Tyr Arg Arg Ala Ala Ser Asn Met Ala Leu Gly Lys Phe Arg Ala 220 223 Ala Leu Arg Asp Tyr Glu Thr Val Val Lys Val Lys Pro His Asp Lys 224 100 105 110 227 Asp Ala Lys Met Lys Tyr Gln Glu Cys Asn Lys Ile Val Lys Gln Lys 228 115 125 120 231 Ala Phe Glu Arg Ala Ile Ala Gly Asp Glu His Lys Arg Ser Val Val 232 130 135 140 235 Asp Ser Leu Asp Ile Glu Ser Met Thr Ile Glu Asp Glu Tyr Ser 236 145 150 155 239 <210> SEQ ID NO: 4 240 <211> LENGTH: 235 241 <212> TYPE: PRT 242 <213> ORGANISM: Artificial 244 <220> FEATURE: 245 <223> OTHER INFORMATION: Figure GRAPAHIT2 sequence 247 <400> SEQUENCE: 4 249 Pro Leu Cys Lys Gln Ala Leu Glu Asp Leu Glu Lys Thr Ser Gly His 250 1 253 Asp His Pro Asp Val Ala Thr Met Leu Asn Ile Leu Ala Leu Val Tyr 254 25 257 Arg Asp Gln Asn Lys Tyr Lys Glu Ala Ala His Leu Leu Asn Asp Ala 258 35 40 261 Leu Ala Ile Arg Glu Lys Thr Leu Gly Lys Asp His Pro Ala Val Ala 262 50

Input Set : A:\018547.ST25.txt

Output Set: N:\CRF4\01182006\1683264.raw

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265 Ala Thr Leu Asn Asn Leu Ala Val Leu Tyr Gly Lys Arg Gly Lys Tyr
266· 65
                         70
269 Lys Glu Ala Glu Pro Leu Cys Lys Arg Ala Leu Glu Ile Arg Glu Lys
270
                    85
273 Val Leu Gly Lys Phe His Pro Asp Val Ala Lys Gln Leu Ser Asn Leu
274
                100
                                     105
                                                          110
277 Ala Leu Leu Cys Gln Asn Gln Gly Lys Ala Glu Glu Val Glu Tyr Tyr
278
            115
                                 120
                                                      125
281 Tyr Arg Arg Ala Leu Glu Ile Tyr Ala Thr Arg Leu Gly Pro Asp Asp
        130
                             135
282
                                                  140
285 Pro Asn Val Ala Lys Thr Lys Asn Asn Leu Ala Ser Cys Tyr Leu Lys
286 145
                         150
                                             155
289 Gln Gly Lys Tyr Gln Asp Ala Glu Thr Leu Tyr Lys Glu Ile Leu Thr
290
                    165
                                         170
                                                              175
293 Arg Ala His Glu Lys Glu Phe Gly Ser Val Asn Gly Asp Asn Lys Pro
294
                180
                                     185
                                                          190
297 Ile Trp Met His Ala Glu Glu Arg Glu Glu Ser Lys Asp Lys Arg Arg
298
            195
                                 200
                                                      205
301 Asp Ser Ala Pro Tyr Gly Glu Tyr Gly Ser Trp Tyr Lys Ala Cys Lys
302
        210
                             215
                                                  220
305 Val Asp Ser Pro Thr Val Asn Thr Thr Leu Arg
306 225
                         230
                                             235
309 <210> SEQ ID NO: 5
310 <211> LENGTH: 233
311 <212> TYPE: PRT
312 <213> ORGANISM: Artificial
314 <220> FEATURE:
315 <223> OTHER INFORMATION Figure GRAPAHIT3 sequence
317 <400> SEQUENCE: 5
319 Lys Asp Trp Lys Gly Ala Leu Asp Ala Phe Ser Ala Val Gln Asp Pro
320 1
                    5
                                         10
                                                              15
323 His Ser Arg Ile Cys Phe Asn Ile Gly Cys Met Tyr Thr Ile Leu Lys
324
327 Asn Met Thr Glu Ala Glu Lys Ala Phe Thr Arg Ser Ile Asn Arg Asp
328
            35
331 Lys His Leu Ala Val Ala Tyr Phe Gln Arg Gly Met Leu Tyr Tyr Gln
332
335 Thr Glu Lys Tyr Asp Leu Ala Ile Lys Asp Leu Lys Glu Ala Leu Ile
336 65
                         70
                                             75
339 Gln Leu Arg Gly Asn Gln Leu Ile Asp Tyr Lys Ile Leu Gly Leu Gln
340
343 Phe Lys Leu Phe Ala Cys Glu Val Leu Tyr Asn Ile Ala Phe Met Tyr
344
                100
                                     105
                                                          110
347 Ala Lys Lys Glu Glu Trp Lys Lys Ala Glu Glu Gln Leu Ala Leu Ala
                                 120
                                                      125
351 Thr Ser Met Lys Ser Glu Pro Arg His Ser Lys Ile Asp Lys Ala Met
352
        130
                             135
355 Glu Cys Val Trp Lys Gln Lys Leu Tyr Glu Pro Val Val Ile Pro Val
356 145
                         150
                                             155
                                                                  160
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Input Set : A:\018547.ST25.txt

Output Set: N:\CRF4\01182006\I683264.raw

359	Gly	Lys	Leu	Phe	Arg	Pro	Asn	Glu	Arg	Gln	Val	Ala	Gln	Leu	Ala	Lys
360					165					170					175	
363	Lys	Asp	Tyr	Leu	Gly	Lys	Ala	Thr	Val	Val	Ala	Ser	Val	Val	Asp	Gln
364				180					185					190		
367	Asp	Ser	Phe	Ser	Gly	Phe	Ala	Pro	Leu	Gln	Pro	Gln	Ala	Ala	Glu	Pro
368			195					200					205			
371	Pro	Pro	Arg	Pro	Lys	Thr	Pro	Glu	Ile	Phe	Arg	Ala	Leu	Glu	Gly	Glu
372		210					215					220				
375	Ala	His	Arg	Val	Leu	Phe	Gly	Phe	Val							
376	225					230										

Input Set : A:\018547.ST25.txt

Output Set: N:\CRF4\01182006\I683264.raw

## Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5

VERIFICATION SUMMARY

DATE: 01/18/2006

PATENT APPLICATION: US/09/683,264

TIME: 09:46:36

Input Set : A:\018547.ST25.txt

Output Set: N:\CRF4\01182006\1683264.raw